



UTILITY PATENT APPLICATION TRANSMITTAL
(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 42P11468D
(maximum 12 characters)

First Name Inventor Madhav Datta et al.

Title: COPPER-CONTAINING C4 BALL-LIMITING METALLURGY STACK FOR ENHANCED RELIABILITY OF PACKAGED STRUCTURES AND METHOD OF MAKING SAME

Express Mail Label No. EV 409 362 189 US

ADDRESS TO: **Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450**

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. **Fee Transmittal Form (e.g., PTO/SB/17)**
(Submit an original and a duplicate for fee processing)
2. **Applicant Claims Small Entity Status. (37 CFR 1.27)**
3. **Specification (Total Pages 25)**
(preferred arrangement set forth below)
 - Descriptive Title of the Invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. **Drawings(s) (35 USC 113) (Total Sheets 9)**
5. **Oath or Declaration (Total Pages 4)**
 - a. Newly Executed (Original or Copy)
 - b. Copy from a Prior Application (37 CFR 1.63(d))
(for Continuation/Divisional with Box 18 completed)
 - i. **DELETIONS OF INVENTOR(S)** Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
 - c. Unsigned.
6. **Application Data Sheet. (37 CFR 1.76)**
7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. paper

c. Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. **Assignment Papers (c or she t & d cum nts(s))**
10. a. Separate 37 CFR 3.73(b) Statement (where there is an assignee)
 b. Power of Attorney
11. English Translation Document (if applicable)
12. a. Information Disclosure Statement (IDS)/PTO-1449 (or PTO/SB/08)
 b. Copies of IDS Citations
13. **Preliminary Amendment**
14. **Return Receipt Postcard (MPEP 503) (Should be specifically itemized)**
15. Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. **Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.**
17A. Other: Formal Drawings Submission

17B. Pursuant to 37 C.F.R. 1.136(a)(3), applicant(s) hereby request and authorize the U.S. Patent and Trademark Office to (1) treat any concurrent or future reply that requires a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 C.F.R. 1.16 and 1.17, to Deposit Account No. 02-2666.

18. If a **CONTINUING APPLICATION**, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet Under 37 C.F.R. 1.76:

Continuation Divisional Continuation-in-part (CIP)
Of Prior Application No.: 09/961,034 Examiner Pham, Long Group Art Unit 2814
(which is a continuation/ divisional/ CIP of prior application no. _____,
which is a continuation/ divisional/ CIP of prior application no. _____) (List entire chain of priority)

Applicant(s): Also include a Preliminary Amendment to amend the specification to claim priority.
For CONTINUATION AND DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. **Correspondence Address**
 Customer Number or Bar Code Label _____
or _____ (Insert Customer No. or Attach Bar Code Label
here)
 Correspondence Address Below
NAME Michael A. Bernadicou
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
ADDRESS 12400 Wilshire Boulevard
Seventh Floor
CITY Los Angeles STATE California ZIP CODE 90025
Country U.S.A. TELEPHONE (408) 720-8300 FAX (408) 720-8383

Name (PRINT/TYPE): Michael A. Bernadicou Registration N.: 35,934
Signature: Michael A. Bernadicou Date: 2/10/04

FEE TRANSMITTAL FOR FY 2004

(FY 2004 Begins 10/01/2003)

TOTAL AMOUNT OF PAYMENT (\$) \$770.00

Completeness if Known:

Applicant Name Not yet assigned

Filing Date Herewith

First Named Inventor Madhav Datta et al.

Examiner Name Not yet assigned

Art Unit Not yet assigned

Attorney Docket No. 42P11468D

Applicant claims small entity status. See 37 CFR 1.27.

METHOD OF PAYMENT (check all that apply)

Check Credit Card Money Order Other None

Deposit Account

Deposit Account Number : 02-2666

Deposit Account Name: _____

The Director is Authorized to do the following with respect to the above-identified Deposit Account:

Charge fee(s) indicated below.

Credit any overpayments.

Charge any additional fees during the pendency of this application.

Any concurrent or future reply that requires a petition for extension of time should be treated as incorporating an appropriate petition for extension of time and all required fees should be charged.

Charge fee(s) indicated below except for the filing fee.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity	Small Entity				
Fee	Fee	Fee	Fee	Fee Description	Fee Paid
Code	Fee (\$)	Code	Fee (\$)	Utility application filing fee	<u>\$770.00</u>
1001	770	2001	385	Design application filing fee	_____
1002	340	2002	170	Plant filing fee	_____
1003	530	2003	265	Reissue filing fee	_____
1004	770	2004	385	Provisional application filing fee	_____
1005	160	2005	80		

SUBTOTAL (1) \$ 770.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

	<u>Extra Claims</u>	<u>Fee from below</u>	<u>Fee Paid</u>
Total Claims <u>11</u>	<u>- 20** = 0</u>	<u>X \$18.00</u>	<u>=</u> _____
Independent Claims <u>2</u>	<u>- 3** = 0</u>	<u>X \$86.00</u>	<u>=</u> _____
Multiple Dependent		<u>\$290.00</u>	<u>=</u> _____

**Or number previously paid, if greater; For Reissues, see below.

Large Entity	Small Entity		
Fee	Fee	Fee	Fee
Code	Fee (\$)	Code	Fee (\$)
1202	18	2202	9
			Claims in excess of 20
1201	86	2201	43
			Independent claims in excess of 3
1203	290	2203	145
			Multiple dependent claim, if not paid
1204	86	2204	43
			**Reissue independent claims over original patent
1205	18	2205	9
			**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) \$ 0.00

FEE CALCULATION (continued)

3. ADDITIONAL FEES

<u>Larg Entity</u>	<u>Small Entity</u>	<u>Fee Description</u>	<u>Fee Paid</u>
<u>Fee</u>	<u>Fee</u>	<u>Fee</u>	<u>Fee</u>
Code	Fee (\$)	Code	Fee (\$)
1051	130	2051	65
1052	50	2052	25
1053	130	1053	130
1812	2,520	1812	2,520
1813	8,800	1813	8,800
1804	920*	1804	920*
1805	1,840*	1805	1,840*
1251	110	2251	55
1252	420	2252	210
1253	950	2253	475
1254	1,480	2254	740
1255	2,010	2255	1,005
1401	330	2401	165
1402	330	2402	165
1403	290	2403	145
1451	1,510	1451	1,510
1452	110	2452	55
1453	1,330	2453	665
1501	1,330	2501	665
1502	480	2502	240
1503	640	2503	320
1460	130	1460	130
1807	50	1807	50
1806	180	1806	180
8021	40	8021	40
1809	770	2809	385
1814	110	2814	55
1810	770	2810	385
1801	770	2801	385
1802	900	1802	900
1504	300	1504	300
1505	300	1505	300
1803	130	1803	130
1808	130	1808	130
1454	1,330	1454	1,330
Acceptance of unintentionally delayed claim for priority			

Other fee (specify) _____

Other fee (specify) _____

SUBTOTAL (3) \$ 0.00

*Reduced by Basic Filing Fee Paid

SUBMITTED BY:

Typed or Printed Name: Michael A. Bernadicou

Signature: Michael A. Bernadicou Dat : 2/10/04

Reg. Number: 35,934 Telephone Number: (408) 720-8300

Send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Madhav Datta et al.) Examiner: Not yet assigned
Serial No.: Not yet assigned) Art Unit: Not yet assigned
Filed: Herewith)
For: COPPER-CONTAINING C4 BALL-)
LIMITING METALLURGY STACK FOR ENHANCED)
RELIABILITY OF PACKAGED STRUCTURES)
AND METHOD OF MAKING SAME)
Which is a Divisional of Application of:)
Serial No: 09/961,034)
Filed: September 21, 2001)

Commissioner for Patents
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Alexandria, VA 22313-1450

FORMAL DRAWINGS SUBMISSION

Enclosed herewith for submission in the United States Patent and Trademark Office
are nine (9) sheets of formal drawings for the patent application referenced above.

"Express Mail" mailing label number: EV 409 362 189 US
 Date of Deposit: February 10, 2004
 I hereby certify that I am causing this paper or fee to be deposited with the United States Postal Service "Express Mail Post Office to Addressee" service on the date indicated above and that this paper or fee has been addressed to Mail Stop New Patent Application, COMMISSIONER FOR PATENTS, P.O. Box 1450, Alexandria, VA 22313-1450
 Teresa Mattox
 (Typed or printed name of person mailing paper or fee)
Teresa Mattox
 (Signature of person mailing paper or fee)
February 10, 2004
 (Date signed)

If there are any further charges please charge them to Deposit Account No. 02-2666. A duplicate of this sheet is enclosed for that purpose.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: 2/10, 2004

Michael A. Bernadicou

Reg. No. 35,934

12400 Wilshire Boulevard
Seventh Floor
Los Angeles, California 90025-1026
(408) 720-8300